



**BrightFocus[®]
Foundation**

Cure in Mind. Cure in Sight.

Measures of Success: Spring 2024 HRA Meeting

**Diane Bovenkamp, PhD
Vice President, Scientific Affairs**

Virtual Session

Tuesday, March 12, 2024

BrightFocus' Vision

A world where we age free from diseases of mind & sight

Age-related brain and vision diseases have no borders, and a person's risk of developing them increases daily.

[→ About BrightFocus](#)

280,000,000

People worldwide with age-related macular degeneration or glaucoma.

55,000,000

People worldwide living with Alzheimer's disease or other dementias.

1 in 9

U.S. adults aged 65 and older with dementia.

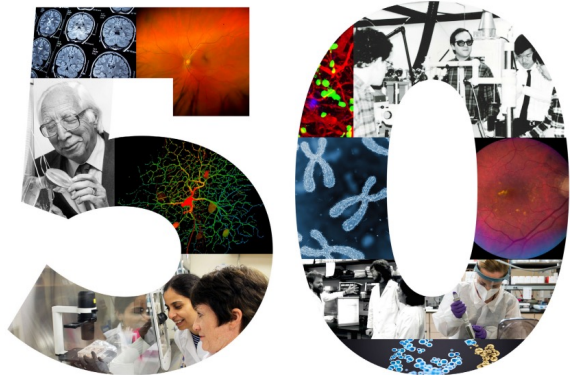
**Alzheimer's
Disease
Research**

**Macular
Degeneration
Research**

**National
Glaucoma
Research**

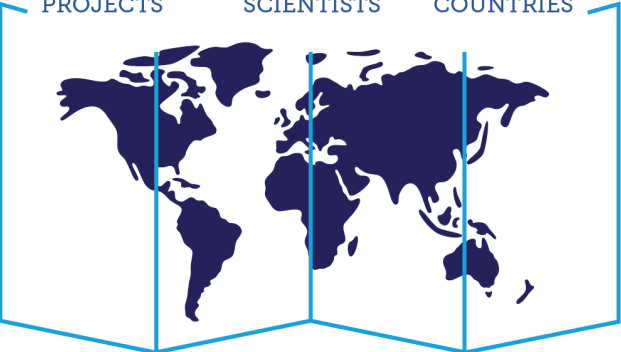


Diseases Have No Borders... Neither Do BrightFocus Awards



YEARS OF **BOLD RESEARCH**

1891 PROJECTS **6240** SCIENTISTS **25** COUNTRIES



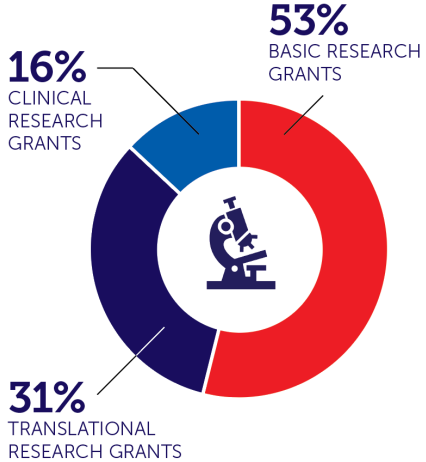
BrightFocus makes innovative science possible around the world. We've invested nearly **\$290 million** for **1,891 research projects** involving **6,240 scientists** since inception.

\$290 million awarded over **50 years**

Nearly **\$100 million** in past 5 years

Currently active global portfolio:
276 awards in **16 countries** (**\$74 m**)

Grantees achieved top scientific accolades including 2 Nobel laureates



BrightFocus Awards Offered

**ADR LOI OPENS
JULY 2024**

**NGR Full OPENS
JULY 2024**

**MDR LOI OPENS
MAY 2024**

- **Alzheimer's Disease Research**
 - Standard Award: \$300,000 over 3 years
 - Postdoctoral Fellowship: \$200,000 over 2 years
- **National Glaucoma Research**
 - Standard Award: \$200,000 over 2 years
 - Postdoctoral Fellowship: \$150,000 over 2 years
- **Macular Degeneration Research**
 - Innovative Research Grant \$600,000 over 3 years
 - New Investigator Grant \$450,000 over 3 years
 - Postdoctoral Fellowship: \$200,000 over 2 years

Apply for a grant:



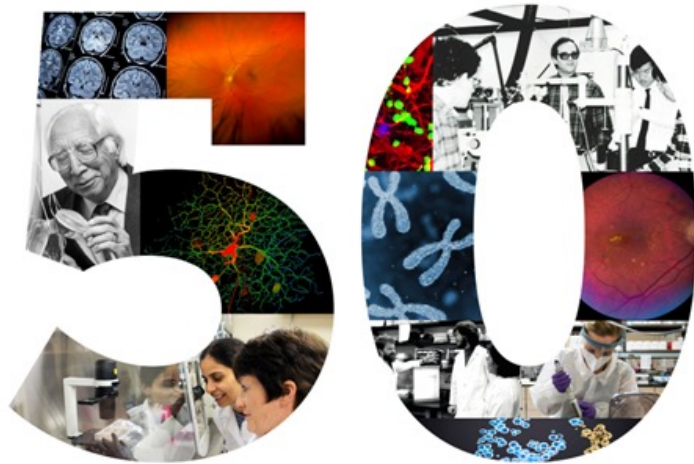
Sign up for "Grants Notification" at bottom of page to be notified when RFP released:
<https://science.brightfocus.org/apply-grant>

How To Define 'Success'?

Project: 50th Anniversary Impact

Impact Metrics for the Board

Constant Monitoring for Max Impact



YEARS OF **BOLD RESEARCH**



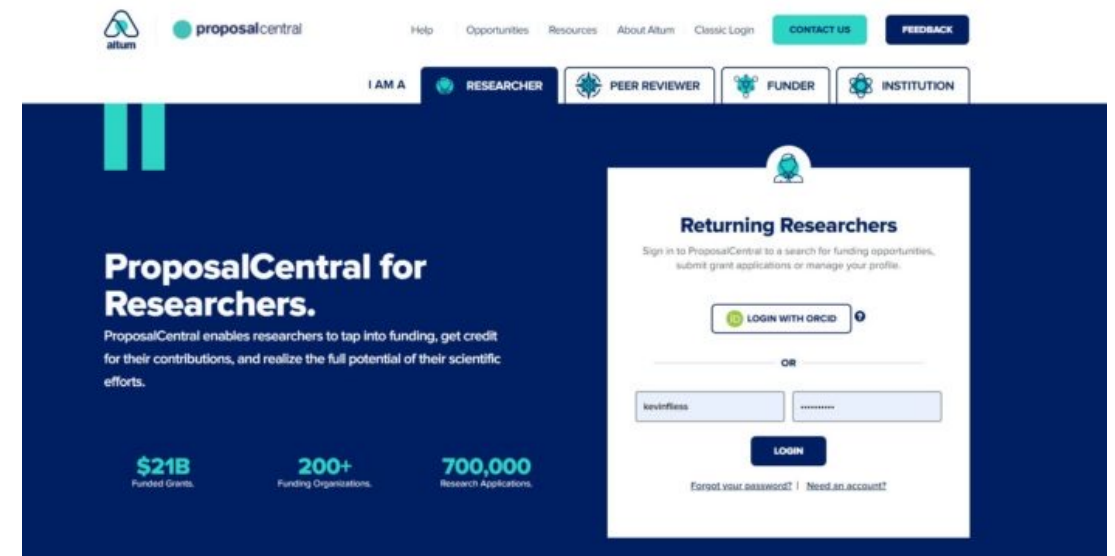
First Things First: Digitize!

Turn This:



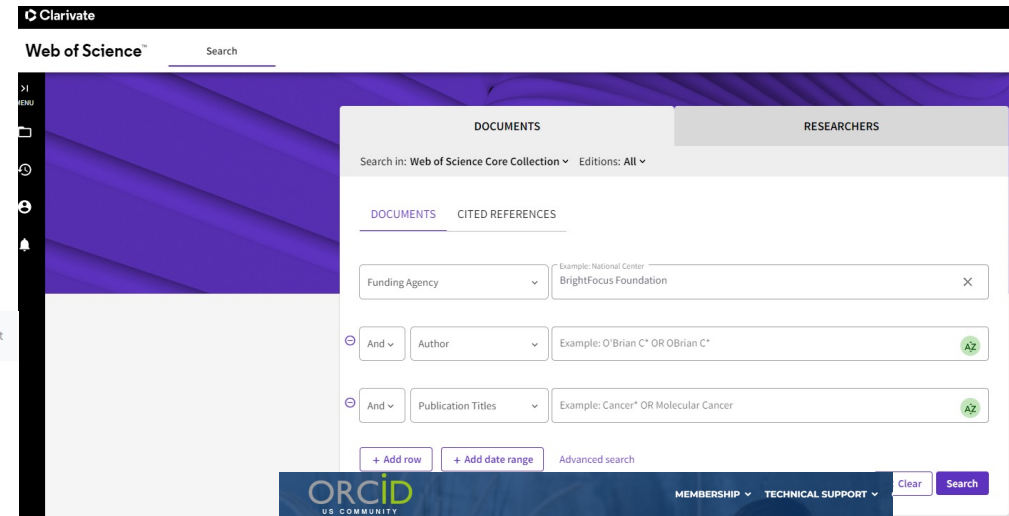
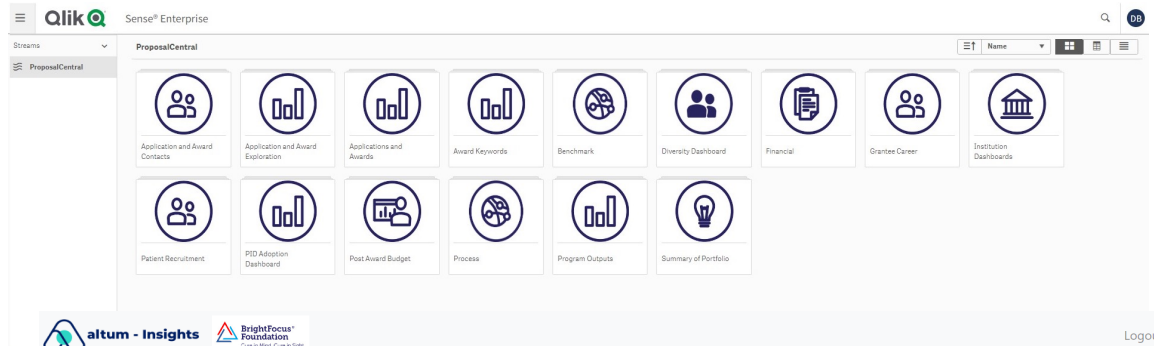
©1981 Raiders of the Lost Ark

Into This:

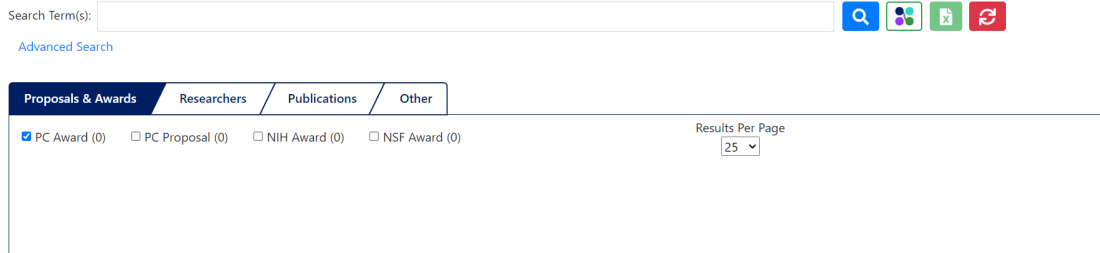


Next Step: Analyze! ...OR... How Do You Use Altum++ To Measure Success?

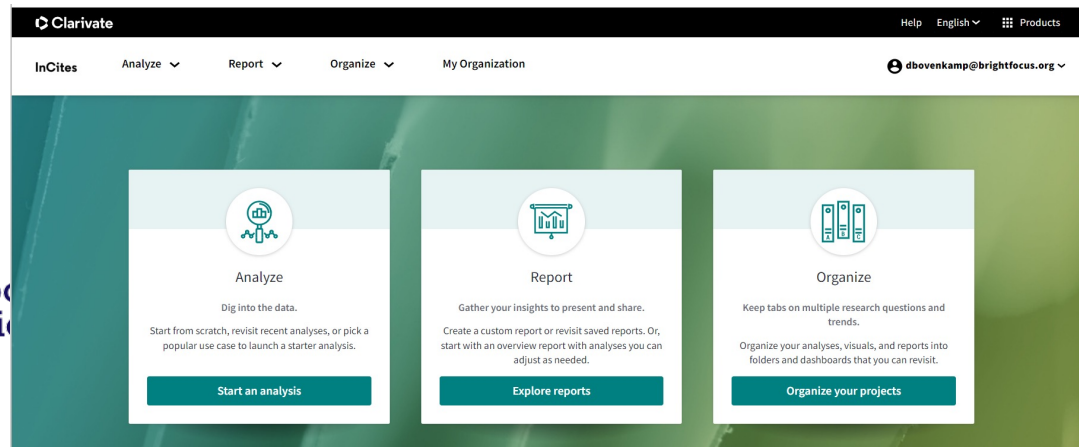
Altum Analytics:



Altum Insights:



Clarivate InCites:



Articles Case law

Stand on the shoulders of giants



50th Anniversary Timelines, MicroSite, Congressional Briefing Eye/Brain Research

1985

Alzheimer's Disease Research, a program of BrightFocus Foundation, begins.



1992

Researchers uncover new genetic causes of inherited Alzheimer's disease.

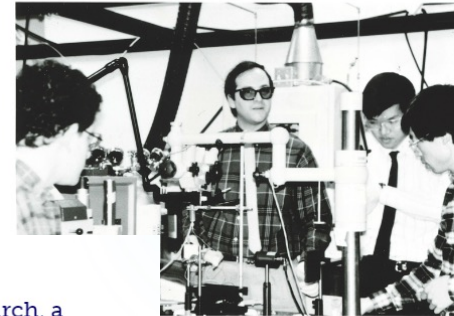
Researchers, including BrightFocus grantees Drs. Rudolph Tanzi, Gerard Schellenberg, John Hardy, and Peter St. George-Hyslop, discover a...

2005

First anti-VEGF treatment for wet age-related macular degeneration.

Grantee Peter Campochiaro, MD, is among the first to prove the benefits of suppressing vascular endothelial growth factor (VEGF), leading to the development of a novel anti-VEGF age-related macular degeneration treatment method that's still the gold standard for helping to slow or stop further vision loss in wet age-related macular degeneration patients.

National Glaucoma Research, a program of BrightFocus Foundation, begins.



1999

Macular Degeneration Research, a program of BrightFocus, begins.



2010

Grantees create the first noninvasive technique to measure eye pressure.

Grantee Joel Schuman, MD, and his team create the first noninvasive technique to measure eye pressure—the most important factor to consider in glaucoma. For the first time, scientists can visualize and measure how fast drainage in the front of the eye occurs without touching the eye and without any bright lights.

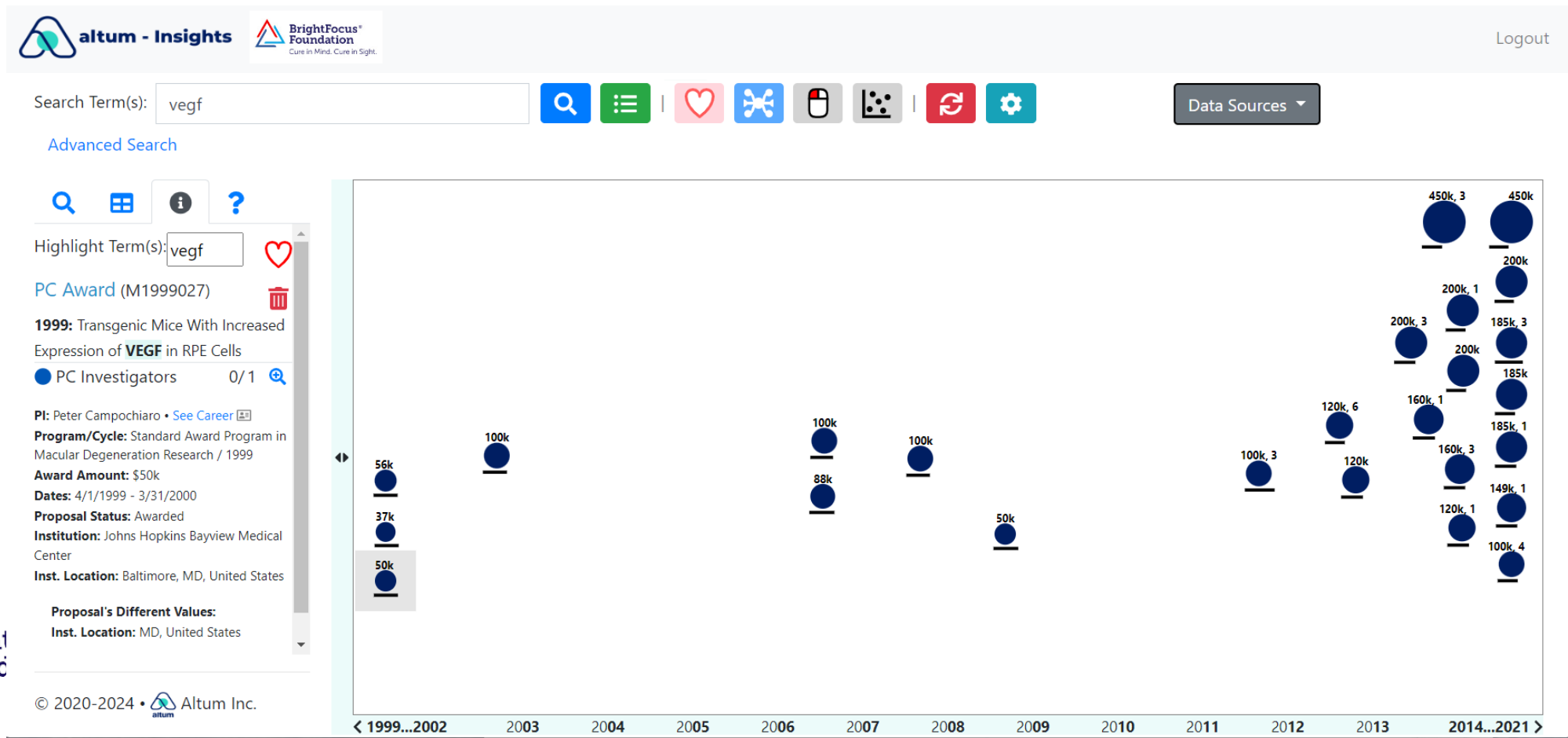
Dr. Schuman Spotlight

<https://www.brightfocus.org/news/brightfocus-foundation-celebrates-50-years-biomedical-research-breakthroughs>



To Discover First-In Funding Innovation: Use Altum Insights

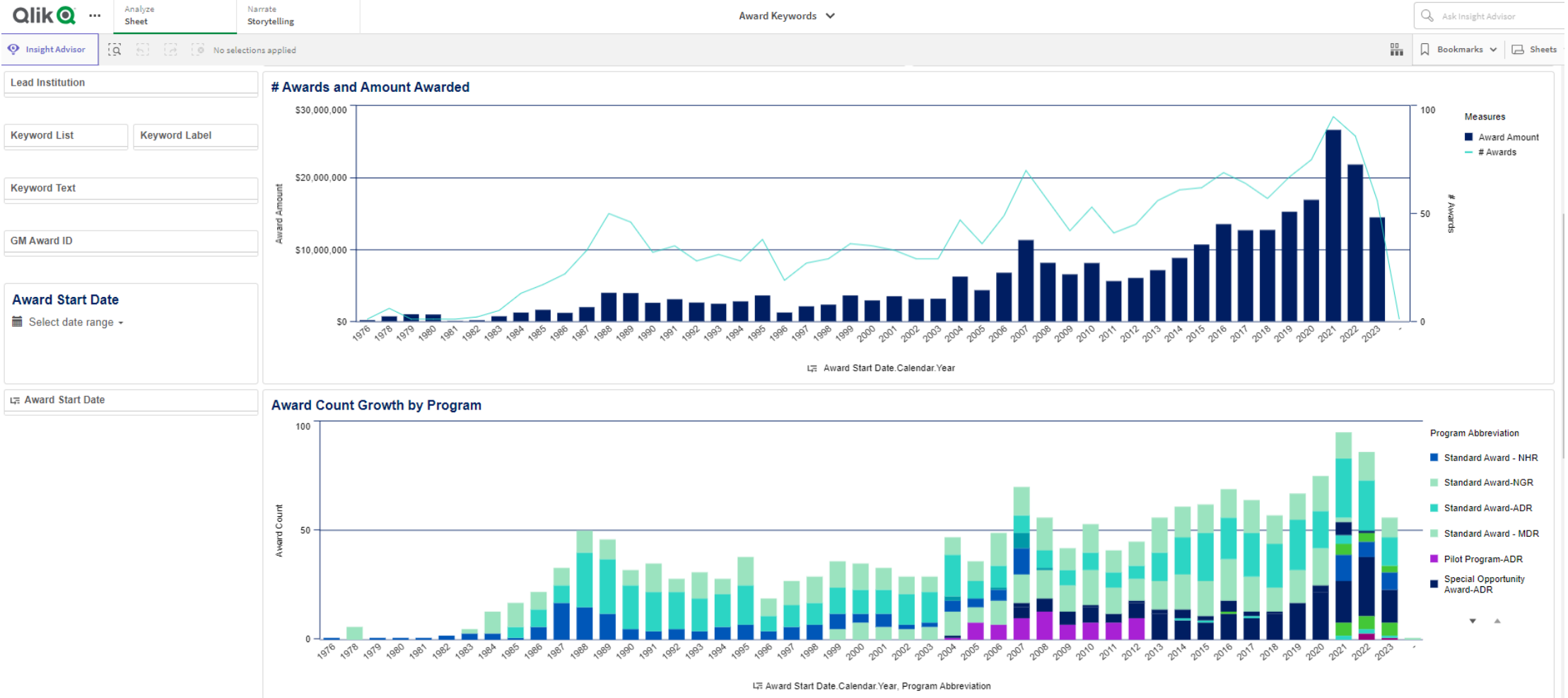
Search by keyword, institution, person, country, state, disease, etc.





Impact Metrics For Board: Altum Analytics

Altum Analytics: Since Inception Funding





Impact Metrics For Board: WOS/Clarivate Incites

Clarivate Incites: Category Normalized Citation Impact vs NIH and/or other funders

Funding Agencies ▼ FUNDING OUTPUT TYPE ▼ Funded FUNDING DATA SOURCE ▼ All Sources

BrightFocus Foundation × National Institute for Health Research (NIHR) × National Institutes of Health (NIH) - USA × NIH National Eye Institute (NEI) ×

NIH National Institute of Neurological Disorders & Stroke (NINDS) × + 1 more

e.g. NIH 🔍

Time Period: 1980 to 2023 × Schema: Web of Science Funding Agency: BrightFocus Foundation, National Institute for Health Research (NIHR), National Institutes of Health (NIH) - USA, NIH National Eye Institute (NEI), NIH National Institute of Neurological Disorders & Stroke (NINDS), NIH National Institute on Aging (NIA) × Clear all filters

Filters Indicators Baselines

Narrow the results in the table.

Dataset
InCites Dataset ▼

Include ESCI documents 🗨

Publication Date

START END

[Select a different range](#)

InCites dataset updated Feb 29, 2024. Includes Web of Science content indexed through Jan 31, 2024

Funding Agency ● ➤

Funding Agency Location ➤

Researcher Location ➤

Collaborating Funding Agencies ➤

TABLE VISUAL

5 funding agencies (2,806,430 documents) Find in table Sorted by Times Cited Add indicator Download CSV

| Funding Agency | Web of Science Documents | Times Cited | Rank | % Documents Cited | Category Normalized Citation Impact |
|--------------------------------------------------------------------------------------------|--------------------------|-------------|------|-------------------|-------------------------------------|
| <input checked="" type="checkbox"/> BrightFocus Foundation | 3,647 | 141,167 | 5 | 79.68% | 1.98 |
| 1 rows added Remove row | | | | | |
| <input type="checkbox"/> National Institutes of Health (NIH) - USA | 2,805,491 | 163,594,865 | 1 | 94.52% | 1.71 |
| <input type="checkbox"/> NIH National Institute of Neurological Disorders & Stroke (NINDS) | 121,666 | 7,671,837 | 2 | 96.18% | 1.7 |
| <input type="checkbox"/> NIH National Institute on Aging (NIA) | 108,424 | 6,862,606 | 3 | 93.84% | 2.02 |
| <input type="checkbox"/> NIH National Eye Institute (NEI) | 70,709 | 3,846,846 | 4 | 93.15% | 1.65 |



Constantly Updating Stats: Altum Analytics/WOS/Clarivate Incites/Scientist Surveys

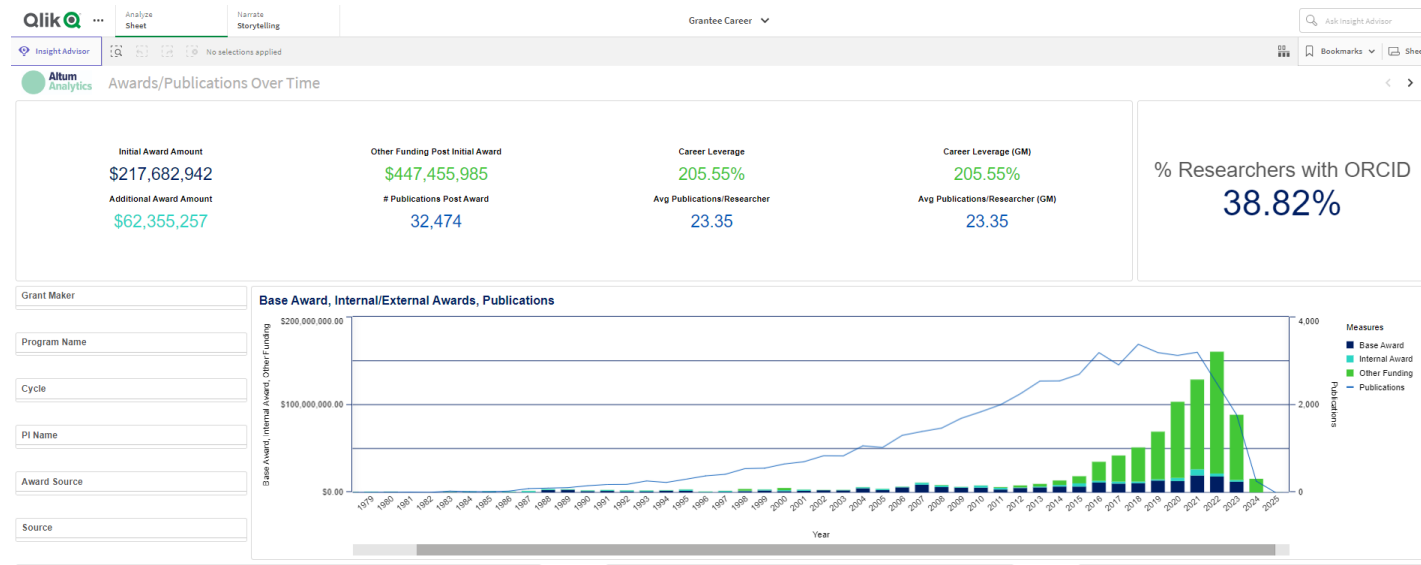
Follow-on Funding: Last Major Survey 2011 (10x); New with Altum Analytics (2x)?? But Missing Data

Capacity Building

What do our grants mean for investigators?

“a \$100 donation results in over \$1000 dollars in future funding for each AHAF grant”

| | AHAF | ADR | MDR | NGR |
|------------------------------------------|-------------|-------------|-------------|-------------|
| Average # downstream grants | 2.23 | 2.13 | 1.60 | 2.85 |
| Average downstream grant value | \$1,399,166 | \$1,095,391 | \$1,396,655 | \$1,856,712 |
| Average AHAF investment | \$152,843 | \$206,957 | \$99,467 | \$115,090 |
| Leverage (fold) | 9.2 | 5.3 | 14.0 | 16.1 |
| Leverage (percentage) | 915% | 529% | 1404% | 1613% |
| Value of a \$100 donation to researchers | \$1,015 | \$629 | \$1,504 | \$1,713 |



...~25% post-award PC survey response rate: Commission Scientist Survey



Following Career Trajectories: Altum Analytics/Scientist Surveys

Especially Postdocs can be hard to track: ORCID Membership/API w PC – ask Scientist To Share User Permissions

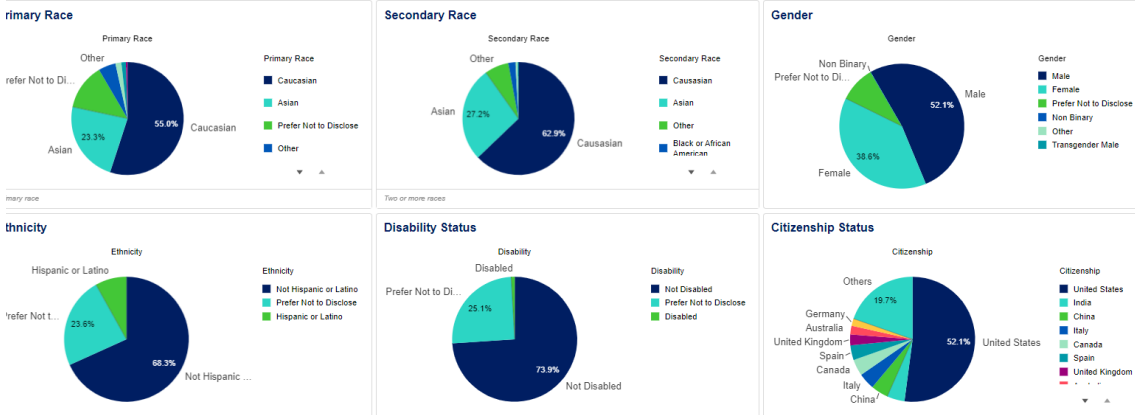
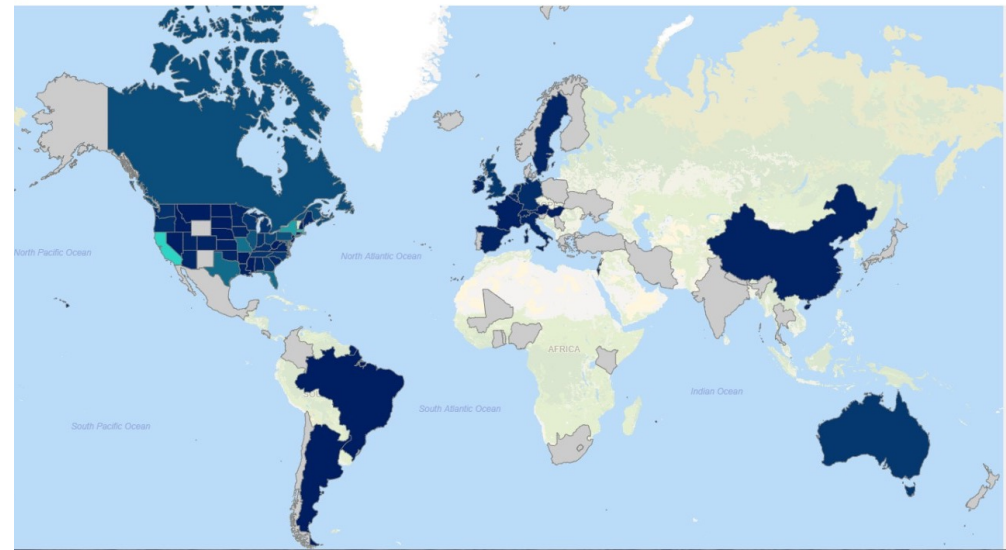




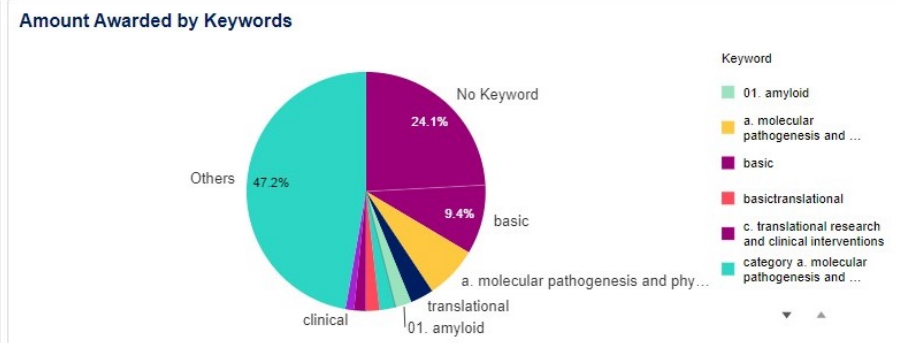
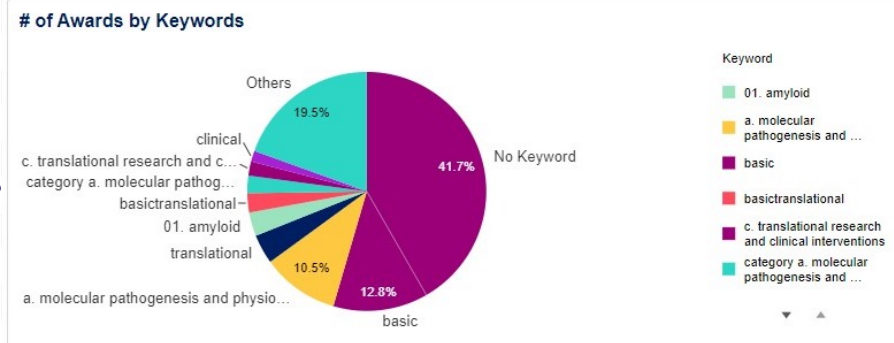
Diversify Science and Scientists: Altum Analytics

Questions in Application Phase: Key Words, Ethnicity/Race/Gender, Institution Location

| | | | | |
|--------------------------|------------------------------|----------------------------|---------------------------------|---------------------------|
| All Users 16,859 | All Applicants 5,145 | All Awardees 1,391 | All Key Personnel 3,303 | All Reviewers 150 |
| Selected Users 16,859 | Selected Applicants 5,145 | Selected Awardees 1,391 | Selected Key Personnel 3,303 | Selected Reviewers 150 |



| | | | | | |
|-----------------|-------------------------------------|--------------------------------|------------------------|-----------------------------|-------------------------------|
| Awards 1,815 | Total Award Amount \$280,038,199 | Avg # of Awards Per PI 1.30 | Awards with NCE 220 | Total Paid \$189,606,150 | ORCID Adoption Rate 29.75% |
|-----------------|-------------------------------------|--------------------------------|------------------------|-----------------------------|-------------------------------|



Real-Time Notification of BFF-Funded Publications: WOS Alerts

First, Consolidate Your Organization Name (found 171 for BFF); Then, Set Up Automatic Alerts

Web of Science

Clariva

Greetings! You have a saved search alert.

[View records](#)

Your search, **FO=BrightFocus** has 2 new records since Mar 10th 2024.

Showing 2 of the 2

The Structural Layers of the Porcine Iris Exhibit Inherently Different Biomechanical Properties

Investigative Ophthalmology & Visual Science

PURPOSE. The purpose of this study was to isolate the structural components of the ex vivo porcine iris tissue and to determine their biomechanical properties.

METHODS. The porcine stroma and dilator tissues were separated, and ...

Increased Cortical Thickness in Alzheimer's Disease

Annals Of Neurology

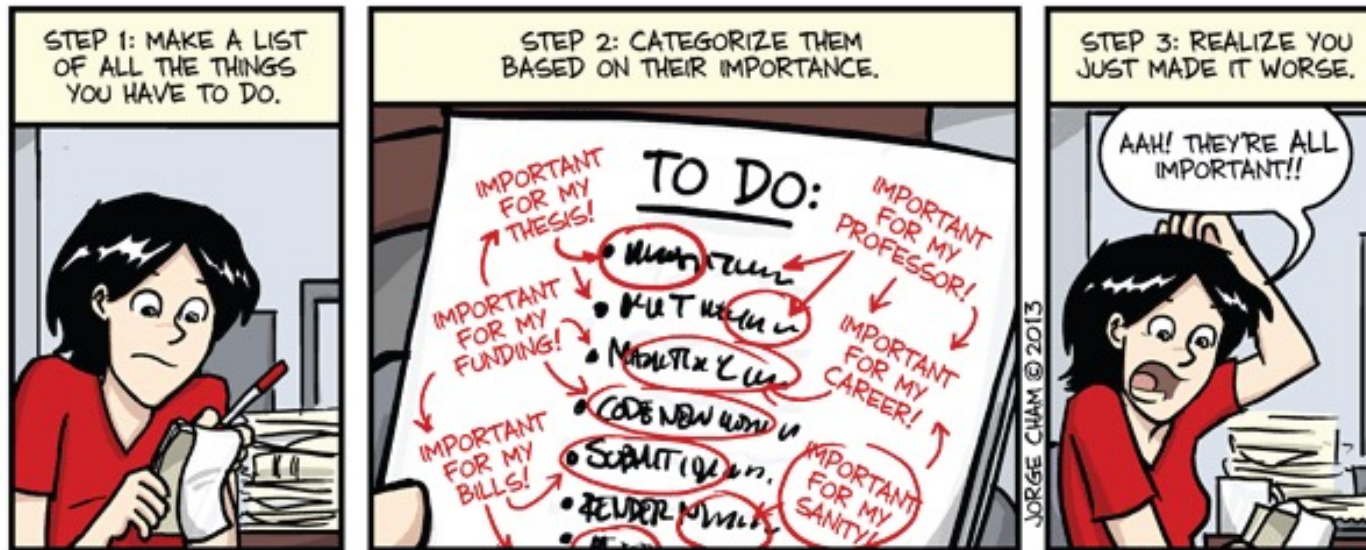




Constant Merging/Automation: Help The Scientists Help Themselves?

- CSV batch upload info by Proposal Central from WOS/InCites/Surveys
- Scientist Add contacts for all roles and have Institution Administration Upload

WHAT TO DO WHEN YOU'RE OVERWHELMED WITH WORK



WWW.PHDCOMICS.COM

"Piled Higher and Deeper" by Jorge Cham, www.phdcomics.com

| Role |
|------------------------------|
| *Communications Officer |
| *Financial Officer |
| *Signing Official |
| *Technology Transfer Officer |

How Is It Working For You?

Microsite, Annual Report, Interviews, etc.

Funding First-In, Innovators, Early-Career

Real-Time Access To Data



YEARS OF **BOLD RESEARCH**



Lessons Learned

- **Hire an expert to help you migrate from one grant system to another**
- **Minimize Customization**
- **Make sure historic data uploaded/mirrored to fields being used by Altum Analytics and Insights**
- **No one system ‘does it all’ – be open to trying new programs to integrate/augment Proposal Central**
- **Work with PC/Altum Staff to communicate your needs. Excellent customer service and adapting**
- **Other lessons learned from PC members out there?**

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